Performance Data Sheet

RKA5518EXD

General Information

Model	RKA5518EXD	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	6500	6110					
	Watts	767	844					
	Amps	3.19	3.57					
	Lb/h	83.6	81.9					
-10	Btu/h	7190	6760	6340				
	Watts	785	867	947				
	Amps	3.27	3.69	4.10				
	Lb/h	91.9	90.0	88.1				
-5	Btu/h	8000	7530	7070	6630			
	Watts	803	890	975	1060			
	Amps	3.35	3.80	4.25	4.69			
	Lb/h	102	99.6	97.5	95.5			
0	Btu/h	8940	8420	7920	7420	6950		
	Watts	822	912	1000	1090	1190		
	Amps	3.44	3.91	4.39	4.86	5.34		
	Lb/h	113	111	108	106	104		
5	Btu/h	10000	9440	8880	8340	7810		
	Watts	840	935	1030	1130	1230		
	Amps	3.53	4.03	4.53	5.03	5.53		
	Lb/h	126	123	121	118	116		
10	Btu/h	11200	10600	9970	9370	8790	8210	7660
	Watts	859	958	1060	1160	1260	1370	1480
	Amps	3.62	4.14	4.66	5.19	5.72	6.27	6.82
	Lb/h	140	137	135	132	130	127	125
15	Btu/h	12500	11800	11200	10500	9880	9240	8610
	Watts	878	980	1080	1190	1300	1410	1530
	Amps	3.71	4.25	4.80	5.35	5.91	6.47	7.05
	Lb/h	155	153	150	147	144	142	139
20	Btu/h	14000	13200	12500	11800	11100	10400	9680
	Watts	898	1000	1110	1220	1340	1450	1580
	Amps	3.80	4.37	4.94	5.51	6.09	6.68	7.28
	Lb/h	172	170	167	164	161	158	155

25	Btu/h	15500	14800	14000	13200	12400	11600	10900
	Watts	918	1030	1140	1250	1370	1490	1620
	Amps	3.90	4.48	5.07	5.66	6.26	6.87	7.50
	Lb/h	191	188	185	182	179	176	173
30	Btu/h	17200	16400	15500	14700	13800	13000	12100
	Watts	937	1050	1160	1280	1400	1530	1670
	Amps	3.99	4.60	5.20	5.81	6.43	7.06	7.71
	Lb/h	210	207	204	201	198	195	192
35	Btu/h	19100	18100	17200	16300	15400	14400	13500
	Watts	957	1070	1190	1310	1440	1570	1710
	Amps	4.09	4.71	5.33	5.96	6.60	7.25	7.91
	Lb/h	231	228	225	222	218	215	212
40	Btu/h	21000	20000	19000	18000	17000	16000	15000
	Watts	978	1090	1210	1340	1470	1610	1750
	Amps	4.19	4.82	5.46	6.11	6.76	7.43	8.11
	Lb/h	253	250	247	244	240	237	233
45	Btu/h	23100	22000	21000	19900	18800	17700	16600
	Watts	998	1110	1230	1360	1500	1640	1790
	Amps	4.28	4.93	5.59	6.25	6.92	7.60	8.30
	Lb/h	276	274	270	267	264	260	256
50	Btu/h	25300	24100	23000	21800	20700	19500	18300
	Watts	1020	1140	1260	1390	1530	1670	1830
	Amps	4.39	5.05	5.71	6.39	7.07	7.77	8.48
	Lb/h	301	298	295	292	288	285	281
55	Btu/h	27600	26400	25200	23900	22700	21400	20100
	Watts	1040	1160	1280	1410	1560	1700	1860
	Amps	4.49	5.16	5.83	6.52	7.22	7.93	8.65
	Lb/h	327	324	321	318	314	310	307

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.340980E+04	5.177466E+01	-6.732788E-01	1.252674E+02
C2	2.560050E+02	1.889483E+00	-2.071986E-02	2.444791E+00
C3	-5.714637E+01	1.057970E+01	5.825889E-02	-1.767938E-02
C4	3.035997E+00	5.719625E-02	2.713149E-04	2.564885E-02
C5	-4.860947E-01	-3.158166E-02	4.341167E-04	1.684642E-03
C6	-6.292438E-03	-1.708755E-02	-1.205478E-04	-2.428572E-03
C7	-2.583350E-04	1.038617E-07	-6.092932E-08	-3.017505E-05
C8	-6.246580E-03	-6.575544E-04	-2.994258E-06	3.857208E-05
C9	-2.568902E-03	6.804239E-04	5.366928E-07	-2.811059E-05
C10	2.834363E-04	6.425909E-05	4.396520E-07	9.234334E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature